

**DESCRIPTION**

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Lyp in Western blots.
<b>Source</b>	Polyclonal Goat IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Lyp Ser306-Ser684 Accession # Q9Y2R2
<b>Conjugate</b>	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 nm
<b>Formulation</b>	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide

\*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<b>Western Blot</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Immunocytochemistry</b>	Optimal dilution of this antibody should be experimentally determined.

**PREPARATION AND STORAGE**

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

**BACKGROUND**

Lymphoid phosphatase (Lyp), also called LyPTP, Protein Tyrosine Phosphatase, Nonreceptor-type 22 (PTPN22), and PEST-domain Phosphatase (PEP), dephosphorylates tyrosine residues in proteins. Found primarily in bone marrow and lymphoid cell lines, an R620W gain-of-function mutation in Lyp has been associated with susceptibility to autoimmune diseases such as type I diabetes, rheumatoid arthritis, and lupus erythematosus. Mature PEP knockout mice have an excess of CD8 positive T-cells and an exaggerated antigen-induced proliferative response.

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